

operable to display an indicium permitting the user to perform, using the touch screen, at least one step of a procedure for changing the setting of the parameter, and to display a time-variable profile of the operational parameter, the profile being representable as a plot of coordinates, the plot being with respect to an ordinate of values of the operational parameter and a time-based abscissa.

~~31.~~ The hemodialysis apparatus of Claim ~~30~~ wherein the indicium is an icon that a user can press to indicate that the user wishes to change the setting of said parameter.

~~32.~~ The hemodialysis apparatus of Claim ~~30~~ wherein the user/machine interface is operable, after the user touches the indicium, to display further indicia on the touch screen that permits the user to perform, using the touch screen, a further step of a procedure for changing the setting of the parameter.

~~33.~~ The hemodialysis apparatus of Claim ~~30~~ wherein the user/machine interface is operable, after the user touches the indicium, to display a numerical keypad on the touch screen that the user can touch to select a value for said parameter.

~~34.~~ The hemodialysis apparatus of Claim ~~30~~ wherein the time-variable profile is displayed as a plurality of segments, wherein the user/machine interface is operable as a plurality of segments, and the user/machine interface is operable to allow the user to change the value of any one of the plurality of segments.

~~35.~~ The hemodialysis apparatus of Claim ~~30~~ wherein the touch screen is operable to permit the user to enter, using the touch screen, a time-varying profile for a parameter.

~~36.~~ The hemodialysis apparatus of Claim ~~35~~ wherein the time-variable profile is displayed as a plurality of segments, and the touch screen is operable to allow the user to touch one of said segments to indicate that the user wishes to change the value of that segment.

~~37~~8 The hemodialysis apparatus of Claim ~~36~~7 wherein the time-variable profile represents the ultrafiltration rate.

~~38~~9 The hemodialysis apparatus of Claim ~~36~~7 wherein the time-variable profile represents the sodium concentration of the dialysate.

~~39~~10 The hemodialysis apparatus of Claim ~~36~~7 wherein the time-variable profile represents the bicarbonate concentration of the dialysate.

~~40~~11 The hemodialysis apparatus of Claim ~~36~~7 wherein the user/machine interface is operable to allow the user to save a profile of a time-varying parameter entered by the user.

~~41~~12 The hemodialysis apparatus of Claim ~~36~~7 wherein the user-machine interface is operable to allow the user to recall a previously saved profile of a time-varying parameter from a memory.

~~42~~13 The hemodialysis apparatus of Claim ~~36~~7 wherein the touch screen is operable to display a plurality of indicia, each corresponding to a different hemodialysis parameter.

~~43~~14 The hemodialysis apparatus of Claim ~~36~~7 wherein the touch screen is operable to display a plurality of indicia, each corresponding to a different time-variable hemodialysis parameter.

~~44~~15 The hemodialysis apparatus of Claim ~~36~~7 wherein the touch screen is operable to display values for said hemodialysis parameter.

~~45~~16 The hemodialysis apparatus of Claim ~~36~~7 wherein the user/machine interface is operable to require the user to verify a parameter after a value of the parameter is selected.

~~46~~17 The hemodialysis apparatus of Claim ~~45~~16 wherein the user/machine interface requires the user to verify the parameter using an indicium displayed on the touch screen.

~~46.18~~ The hemodialysis apparatus of Claim ~~30~~ wherein the touch screen is operable to permit the user to enter, using the touch screen, a time-variable profile that is displayed as a plurality of segments.

~~46.19~~ The hemodialysis apparatus of Claim ~~47~~ wherein the time-variable profile represents the ultrafiltration rate.

~~46.20~~ The hemodialysis apparatus of Claim ~~47~~ wherein the time-variable profile represents the sodium concentration of the dialysate.

~~50.21~~ The hemodialysis apparatus of Claim ~~47~~ wherein the time-variable profile represents the bicarbonate concentration of the dialysate.

~~51.22~~ The hemodialysis apparatus of Claim ~~47~~ wherein the user/machine interface is operable to allow the user to save a profile of a time-varying parameter entered by the user.

~~52.23~~ The hemodialysis apparatus of Claim ~~51~~ wherein the user-machine interface is operable to allow the user to recall a previously saved profile of a time-varying parameter from a memory.

~~53.24~~ The hemodialysis apparatus of Claim ~~47~~ wherein the touch screen is operable to display a plurality of indicia, each corresponding to a different hemodialysis parameter.

~~54.25~~ The hemodialysis apparatus of Claim ~~47~~ wherein the touch screen is operable to display a plurality of indicia, each corresponding to a different time-variable hemodialysis parameter.